

3. WASTE AREA GROUP 5 CULTURAL RESOURCE INVESTIGATIONS

Many cultural resource investigations have been completed in the WAG 5 area. Activities have included archaeological surveys (cf. Reed et al. 1987) and test excavations (Ringe 1988), excavations of sensitive Native American burial sites (Miller 1994, 1997), historic building inventories (Arrowrock Group, Inc. 1997), and detailed Historic American Engineering Record documentation (DOE-ID 1993, Stacey 1998). Table 3-1 below provides a summary of all projects completed to date. Figure 3-1, which follows the table shows the extent of archaeological survey coverage in the area.

Table 3-1. Summary of cultural resource investigations in WAG 5.

Project Number	Project Name	Project Date	Project Type	Number of Cultural Resources	Reference
SJM-84-20	PBF Ditch/Pond	August 1984	6-acre survey	0 cultural resources	Miller 1985:1.6
ISU-84-2	WERF Perimeter	November 1984	25-acre survey	4 cultural resources	Reed et al. 1987:266
ISU-85-11.6	PBF Administrative Area	August 1985	1133-acre survey	84 cultural resources	Reed et al. 1987:266
ISU-85-11.85	135 kV line survey	August 1985	14 mile total survey (~ 1 mile in PBF area)	4 cultural resources in WAG 5 area	Reed et al. 1987:429
ISU-85-11.91	T-24 Road	August 1985	15 mile total survey (~1 mile in PBF area)	3 cultural resources in WAG 5 area	Reed et al. 1987: 461
ISU-88-6	135 kV line test excavations	August 1988	test excavations	5 cultural resources in WAG 5	Ringe 1988
EGG-91-02	SPERT III Building and Sewer	January 1991	archive review	0 cultural resources	Lowrey 1991, Lowrey 1992
EGG-93-04	ARA D&D	August 1993	HAER documentation	Entire ARA complex	Stacey 1998
EGG-93-13	PBF Corrosive Waste Sump and Pond	December 1992	archive review	0 cultural resources	INEEL CRM Files EGG-93-13

Table 3-1. (continued).

EGG-93-22	PBF Communications Upgrade	April 1993	< 1-acre survey	0 cultural resources	Ringe 1993a
EGG-93-31	Explosives Disposal Area Near ARA IV	June 1993	< 1-acre survey	0 cultural resources	INEEL CRM Files EGG-93-31
EGG-94-06	ARA Monitoring Wells	November 1993	1-acre survey	0 cultural resources	Ringe 1993b
EGG-94-24	PBF Human Remains	April 1994	excavation	1 cultural resource	Miller 1994
EGG-94-28	Warning Sign Near ARA IV	May 1994	archive review	0 cultural resources	INEEL CRM Files EGG-94-28
EGG-94-32	Soil Removal at ARA II	June 1994	< 1-acre survey	0 cultural resources	INEEL CRM Files EGG-94-32
EGG-94-37	SL-1 Soil Cap	July 1994	archive review	0 cultural resources	INEEL CRM Files EGG-94-37
EGG-94-46	Portable Water Treatment Units at PBF	November 1994	archive review	0 cultural resources	Ringe 1994
EGG-94-51	MWSF Storage Pad and Access Upgrade at PBF	August 1994	archive review	0 cultural resources	INEEL CRM Files EGG-94-51
LITCO-95-14	Local Area Network Upgrade	March 1995	<1-acre survey	0 cultural resources	INEEL CRM Files LITCO-95-14
LITCO-95-17	WERF Drainage Basin Enlargement	February 1995	archive review	0 cultural resources	INEEL CRM Files LITCO-95-17
LITCO-95-22	Monitoring Wells at PBF	February 1995	archive review	0 cultural resources	INEEL CRM Files LITCO-95-22
LITCO-95-40	Evaporation Pond	May 1995	archive review	0 cultural resources	INEEL CRM Files LITCO-95-40

Table 3-1. (continued).

LMIT-96-27	WERF Human Remains	May 1996	test excavation	1 cultural resource	Miller 1997
LMIT-96-41	CFA and PBF Substation Upgrades	June 1996	archive review	0 cultural resources	INEEL CRM Files LMIT-96-41
LMIT-97-17	PBF Local Area Network Upgrade	March 1997	archive review	0 cultural resources	INEEL CRM Files LMIT-97-17
LMIT-97-20	PBF Wells near PBF-612 and PBF-601	March 1997	archive review	0 cultural resources	INEEL CRM Files LMIT-97-20
LMIT-97-24	ARA-16 Tank Testing	April 1997	archive review	0 cultural resources	INEEL CRM Files LMIT-97-24
LMIT-97-40	ARA Soil Sampling	July 1997	20-acre survey	2 cultural resources	Pace 1998
LMIT-97-51	PBF Rock Probes	August 1997	archive review	0 cultural resources	INEEL CRM Files LMIT-97-51
LMIT-97-56	Historic Building Inventory	September 1997	INEEL-wide building survey	27 buildings at PBF complex, multiple buildings at the ARA complex	Arrowrock 1997
LMIT-98-31	ARA/PBF Environmental Restoration	September 1998	230-acre survey	11 cultural resources	Pace 1998
LMIT-99-43	PBF Asphalt Repair	September 1999	archive review	0 cultural resources	INEEL CRM Files LMIT-99-43
LMIT-99-44	PBF Drainfield Enlargement	September 1999	archive review	0 cultural resources	INEEL CRM Files LMIT-99-44
BBWI-2000-01	ARA-INTEC Haul Road	November 1999	93-acre survey	7 cultural resources	Pace 2000

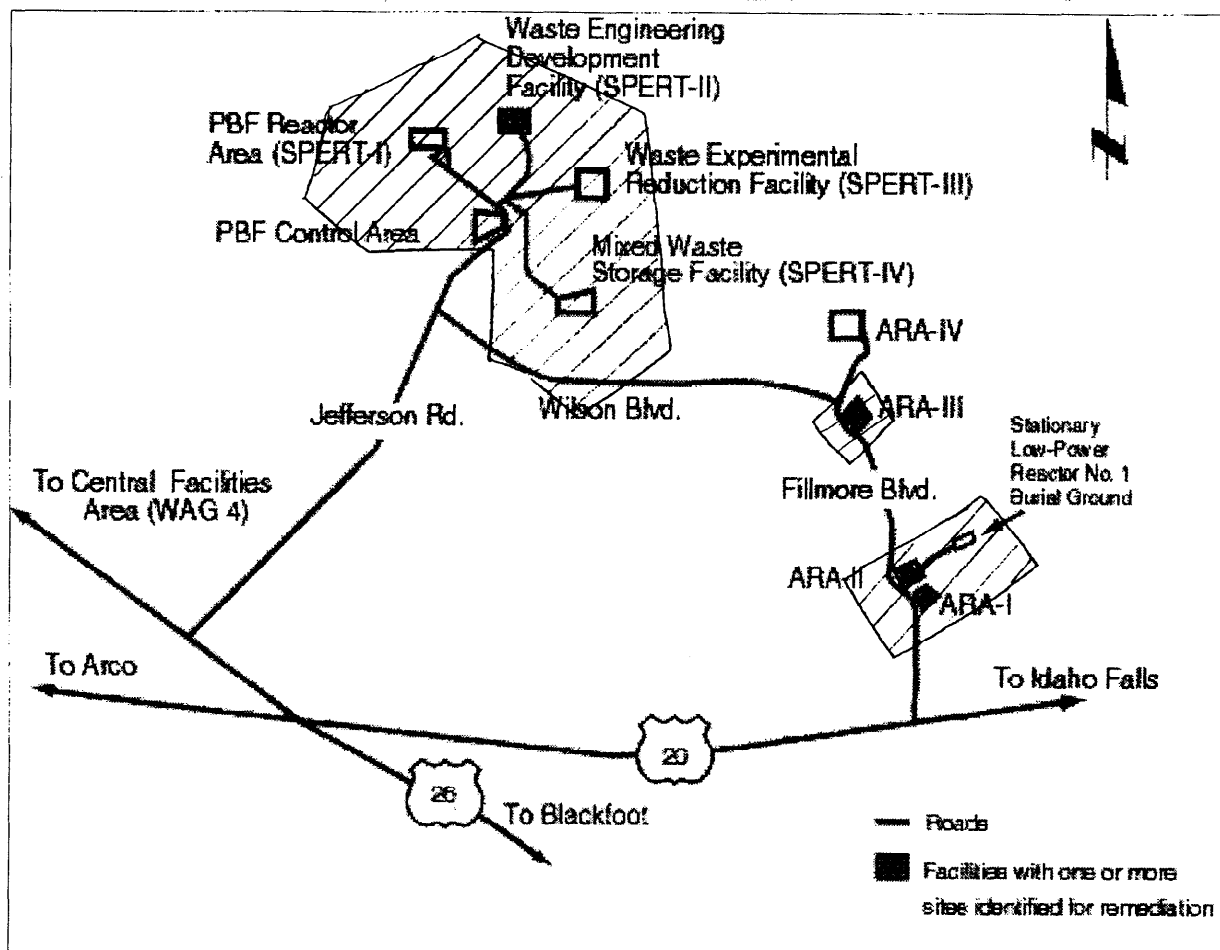


Figure 3-1. Archaeological survey coverage within WAG 5.

3.1 Known Cultural Resource Inventory

Previous investigations have demonstrated that cultural resources of many types are common within Waste Area Group 5. Prehistoric archaeological sites and areas of significance to the Shoshone-Bannock Tribes are especially numerous and sensitive. Less numerous but more visible are the recent historic buildings and structures of the area. Table 3-2 below provides a summary of all cultural resources recorded in WAG 5 to date. Appendix A contains a map showing the locations of all identified archaeological sites within WAG 5. Because the location information included in the appendix is distributed for Official Use Only, it may not be included in all versions of this report.

Table 3-2. Summary of cultural resources recorded in WAG 5.

Site or Building Number	Project	Site Type	Artifact Inventory or Historic Context	Site Age or Year Built	National Register Eligibility
10-BT-1009	ISU-85-11.91: T-24 Road	Lithic Scatter	Flakes, two scrapers	General Prehistoric	Potentially Eligible
10-BT-1011	ISU-85-11.91: T-24 Road and ISU-88-6: 135kV testing	Lithic Scatter	Flakes, large notched point fragment, two biface fragments	Middle Prehistoric	Potentially Eligible
10-BT-1012	ISU-85-11.91: T-24 Road	Lithic Scatter	Flakes, large notched point fragment	General Prehistoric	Potentially Eligible
10-BT-1039	ISU-84-2: WERF	Lithic Scatter	Flakes, biface fragment	General Prehistoric	Potentially Eligible
10-BT-1040	ISU-84-2: WERF	Isolated Find	Four flakes	General Prehistoric	Not Eligible
10-BT-1041	ISU-84-2: WERF	Lithic Scatter	Flakes, two large notched point fragments	Middle Prehistoric	Potentially Eligible
10-BT-1042	ISU-84-2: WERF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1043	ISU-85-11.85: 135kV survey and ISU-88-6: 135kV testing	Campsite	Flakes, two large notched point fragments, fire-cracked rock, hearth feature	1350 ± 70 BP (Middle Prehistoric III)	Potentially Eligible
10-BT-1044	ISU-85-11.85: 135kV survey and ISU-88-6: 135kV testing	Campsite	Flakes, two utilized flakes, burned bone, fire-cracked rock	General Prehistoric	Potentially Eligible

Table 3-2. (continued).

10-BT-1045	ISU-85-11.85: 135kV survey and ISU-88-6: 135kV testing	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible
10-BT-1046	ISU-85-11.85: 135kV survey and ISU-88-6: 135kV testing	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible
10-BT-1162	ISU-85-11.6: PBF	Isolated Find	Large Stemmed point fragment	Early Prehistoric II	Not Eligible
10-BT-1220	ISU-85-11.6: PBF	Isolated Find	Two Elko points	Middle Prehistoric III	Not Eligible
10-BT-1223	ISU-85-11.6: PBF	Lithic Scatter	Flakes, two Stemmed- Indented Base points, four biface fragments	Middle Prehistoric II	Potentially Eligible
10-BT-1160	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Rosegate point, drill, large notched point, two biface fragments, utilized flake	Late Prehistoric I, Middle Prehistoric	Potentially Eligible
10-BT-1161	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Rosegate point, scraper, four biface fragments, three utilized flakes	Late Prehistoric I	Potentially Eligible
10-BT-1221	ISU-85-11.6: PBF	Lithic Scatter	Flakes, two biface fragments, two utilized flakes	General Prehistoric	Potentially Eligible
10-BT-1215	ISU-85-11.6: PBF	Lithic Scatter	Flakes, small notched point, scraper, biface fragment, utilized flake	Late Prehistoric	Potentially Eligible
10-BT-1210	ISU-85-11.6: PBF	Isolated Find	Flakes	General Prehistoric	Not Eligible
10-BT-1211	ISU-85-11.6: PBF	Campsite	Flakes, Rosegate point, fire- cracked rock, three biface fragments, utilized flake	Late Prehistoric I	Potentially Eligible
10-BT-1212	ISU-85-11.6: PBF	Campsite	Flakes, Bitterroot point, five Elko points, Rosegate point, preform, three hearth features, midden feature	Middle Prehistoric I and III, Late Prehistoric I	Potentially Eligible

Table 3-2. (continued).

10-BT-1209	ISU-85-11.6: PBF	Campsite	Flakes, Rosegate point, burned bone	Late Prehistoric I	Potentially Eligible
10-BT-1207	ISU-85-11.6: PBF	Campsite	Flakes, burned bone	General Prehistoric	Potentially Eligible
10-BT-1206	ISU-85-11.6: PBF	Isolated Find	Flakes, retouched flake	General Prehistoric	Not Eligible
10-BT-1204	ISU-85-11.6: PBF	Isolated Find	Flakes	General Prehistoric	Not Eligible
10-BT-1158	ISU-85-11.6: PBF	Isolated Find	Elko point	General Prehistoric	Not Eligible
10-BT-1167	ISU-85-11.6: PBF	Lithic Scatter	Flakes, large notched point, scraper, biface fragment	Middle Prehistoric	Potentially Eligible
10-BT-1174	ISU-85-11.6: PBF	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible
10-BT-1168	ISU-85-11.6: PBF	Isolated Find	Desert point	Late Prehistoric II	Not Eligible
10-BT-1169	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1176	ISU-85-11.6: PBF	Isolated Find	Scraper	General Prehistoric	Not Eligible
10-BT-1163	ISU-85-11.6: PBF	Isolated Find	Bitterroot point	Middle Prehistoric I	Not Eligible
10-BT-1145	ISU-85-11.6: PBF	Campsite	Flakes, burned bone	General Prehistoric	Potentially Eligible
10-BT-1147	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Eastgate point, two biface fragments, retouched flake	Late Prehistoric I	Potentially Eligible
10-BT-1148	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Elko point, two biface fragments	Middle Prehistoric III	Potentially Eligible
10-BT-1142	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Eastgate point, scraper	Late Prehistoric I	Potentially Eligible
10-BT-1146	ISU-85-11.6: PBF	Lithic Scatter	Flakes, knife	General Prehistoric	Potentially Eligible

Table 3-2. (continued).

10-BT-1144	ISU-85-11.6: PBF	Isolated Find	Retouched flake	General Prehistoric	Not Eligible
10-BT-1141	ISU-85-11.6: PBF	Lithic Scatter	Flakes, three biface fragments	General Prehistoric	Potentially Eligible
10-BT-1143	ISU-85-11.6: PBF	Rock Feature	Flakes, rock circle/hunting blind	General Prehistoric	Potentially Eligible
10-BT-1127	ISU-85-11.6: PBF	Isolated Find	Two biface fragments	General Prehistoric	Not Eligible
10-BT-1126	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1140	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Desert Sierra point, scraper, biface fragment	Late Prehistoric II	Potentially Eligible
10-BT-1139	ISU-85-11.6: PBF	Campsite	Flakes, burned bone	General Prehistoric	Potentially Eligible
10-BT-1138	ISU-85-11.6: PBF	Isolated Find	Flakes, Elko point	Middle Prehistoric III	Not Eligible
10-BT-1135	ISU-85-11.6: PBF	Campsite	Flakes, biface fragment, burned bone	General Prehistoric	Potentially Eligible
10-BT-1125	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1137	ISU-85-11.6: PBF	Lithic Scatter	Flakes, biface fragment	General Prehistoric	Potentially Eligible
10-BT-1136	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1123	ISU-85-11.6: PBF	Campsite	Flakes, three Elko points, Avonlea point, Desert point, two scrapers, five biface fragments, four utilized flakes, burned bone, two hearth features	Middle Prehistoric III, Late Prehistoric I and II	Potentially Eligible
10-BT-1122	ISU-85-11.6: PBF	Lithic Scatter	Flakes, biface fragment, utilized flake	General Prehistoric	Potentially Eligible
10-BT-1134	ISU-85-11.6: PBF	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible

Table 3-2. (continued).

10-BT-1124	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1130	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Elko point	Middle Prehistoric III	Potentially Eligible
10-BT-1129	ISU-85-11.6: PBF	Lithic Scatter	Flakes, scraper, biface fragment	General Prehistoric	Potentially Eligible
10-BT-1181	ISU-85-11.6: PBF	Lithic Scatter	Flakes, core	General Prehistoric	Potentially Eligible
10-BT-1180	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1179	ISU-85-11.6: PBF	Isolated Find	Elko point	Middle Prehistoric III	Not Eligible
10-BT-1164	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1172	ISU-85-11.6: PBF	Campsite	Flakes, Elko point, Stemmed-Indented Base point, two stemmed dart points, scraper, three biface fragments, utilized flake, burned bone, two hearth features	Middle Prehistoric II and III	Potentially Eligible
10-BT-1165	ISU-85-11.6: PBF	Isolated Find	Flakes, biface fragment	General Prehistoric	Not Eligible
10-BT-1178	ISU-85-11.6: PBF	Isolated Find	Large notched point	Middle Prehistoric	Not Eligible
10-BT-1224	ISU-85-11.6: PBF	Lithic Scatter	Flakes, five biface fragments	General Prehistoric	Potentially Eligible
10-BT-1225	ISU-85-11.6: PBF	Lithic Scatter	Flakes, utilized flake	General Prehistoric	Potentially Eligible
10-BT-1213	ISU-85-11.6: PBF	Isolated Find	Flakes, Elko point	Middle Prehistoric III	Not Eligible
10-BT-1218	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1219	ISU-85-11.6: PBF	Isolated Find	Elko point	Middle Prehistoric III	Not Eligible

Table 3-2. (continued).

10-BT-1217	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1222	ISU-85-11.6: PBF	Lithic Scatter	Flakes, three utilized flakes	General Prehistoric	Potentially Eligible
10-BT-1121	ISU-85-11.6: PBF	Isolated Find	Elko point	Middle Prehistoric I	Not Eligible
10-BT-1214	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Rosegate point, biface fragment	Late Prehistoric I	Potentially Eligible
10-BT-1216	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Elko point, three biface fragments	Middle Prehistoric III	Potentially Eligible
10-BT-1208	ISU-85-11.6: PBF	Lithic Scatter	Flakes, large notched point, drill, biface fragment	Middle Prehistoric	Potentially Eligible
10-BT-1205	ISU-85-11.6: PBF	Lithic Scatter	Flakes, two Elko points, Rosegate point, biface fragment	Middle Prehistoric III, Late Prehistoric I	Potentially Eligible
10-BT-1166	ISU-85-11.6: PBF	Campsite	Flakes, Biface fragment, utilized and retouched flakes, burned bone	General Prehistoric	Potentially Eligible
10-BT-1170	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Elko point, four biface fragments, two utilized flakes	Middle Prehistoric III	Potentially Eligible
10-BT-1173	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Stemmed-Indented Base point, drill, five biface fragments, utilized flake	Middle Prehistoric II	Potentially Eligible
10-BT-1171	ISU-85-11.6: PBF	Campsite	Flakes, Elko point, Rosegate Point, two Eastgate points, Desert point, three abraders, scraper, two biface fragments, hearth feature	Middle Prehistoric III, Late Prehistoric I and II	Potentially Eligible
10-BT-1175	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1177	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Stemmed-Indented Base point, preform, utilized flake	Middle Prehistoric II	Potentially Eligible

Table 3-2. (continued).

10-BT-1132	ISU-85-11.6: PBF	Isolated Find	Elko Point	Middle Prehistoric III	Not Eligible
10-BT-1133	ISU-85-11.6: PBF	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible
10-BT-1182	ISU-85-11.6: PBF	Isolated Find	Stemmed dart fragment	Middle Prehistoric	Not Eligible
10-BT-1131	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Rosegate point	Late Prehistoric I	Potentially Eligible
10-BT-1128	ISU-85-11.6: PBF	Lithic Scatter	Flakes, scraper	General Prehistoric	Potentially Eligible
10-BT-1155	ISU-85-11.6: PBF	Isolated Find	Bitterroot point	Middle Prehistoric I	Not Eligible
10-BT-1183	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1157	ISU-85-11.6: PBF	Campsite	Flakes, Avonlea point, two Desert points, small notched point, pottery, biface fragment	Late Prehistoric I and II	Potentially Eligible
10-BT-1156	ISU-85-11.6: PBF	Lithic Scatter	Flakes, scraper, four biface fragments	General Prehistoric	Potentially Eligible
10-BT-1149	ISU-85-11.6: PBF	Lithic Scatter	Flakes, utilized flakes	General Prehistoric	Potentially Eligible
10-BT-1150	ISU-85-11.6: PBF	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
10-BT-1151	ISU-85-11.6: PBF	Isolated Find	Stemmed-Indented Base point, large notched point	Middle Prehistoric II	Not Eligible
10-BT-1152	ISU-85-11.6: PBF	Lithic Scatter	Flakes, Stemmed-Indented Base point, Elko point, biface fragment	Middle Prehistoric II and III	Potentially Eligible
10-BT-1153	ISU-85-11.6: PBF	Isolated Find	Flake, Bitterroot point	Middle Prehistoric I	Not Eligible
10-BT-1154	ISU-85-11.6: PBF	Isolated Find	Elko point	Middle Prehistoric III	Not Eligible

Table 3-2. (continued).

10-BT-1991	EGG-94-24: PBF	Human Remains in secondary context	Human bones, historic trash (wire, wood, plastic), 55 lithic flakes	1254±45 years BP (Late Prehistoric II)	Potentially Eligible
10-BT-2046	EGG-96-27: WERF	Human Remains in primary context	Human bones	General Prehistoric	Potentially Eligible
97-40-01	LMIT-97-40: ARA	Lithic Scatter	Flakes, two large notched points, biface fragment, utilized flake	Middle Prehistoric	Potentially Eligible
97-40-02	LMIT-97-40: ARA	Campsite	Flakes, Bitterroot point, large notched point, two small notched points, preform, scraper, two biface fragments, two utilized flakes, burned bone, fire-cracked rock	Middle Prehistoric I and Late Prehistoric	Potentially Eligible
98-31-01	LMIT-98-31: ARA	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
98-31-02	LMIT-98-31: ARA	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
98-31-03	LMIT-98-31: ARA	Isolated Find	Scraper	General Prehistoric	Not Eligible
98-31-04	LMIT-98-31: ARA	Isolated Find	Flake, large notched point	Middle Prehistoric	Not Eligible
98-31-05	LMIT-98-31: ARA	Isolated Find	Flake	General Prehistoric	Not Eligible
98-31-06	LMIT-98-31: ARA	Isolated Find	Stemmed-Indented Base point	Middle Prehistoric II	Not Eligible
98-31-07	LMIT-98-31: ARA	Isolated Find	Large notched point	Middle Prehistoric	Not Eligible
98-31-08	LMIT-98-31: ARA	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
98-31-09	LMIT-98-31: ARA	Isolated Find	Elko point	Middle Prehistoric III	Not Eligible

Table 3-2. (continued).

98-31-10	LMIT-98-31-ARA	Isolated Find	Flakes	General Prehistoric	Not Eligible
98-31-11	LMIT-98-31: ARA	Cave	No artifacts apparent at surface, subsurface unexplored	General Prehistoric	Potentially Eligible
2000-01-01	BBWI-2000-01: ARA to INTEC Haul Road	Campsite	Flakes, biface fragment, burned bone	General Prehistoric	Potentially Eligible
2000-01-02	BBWI-2000-01: ARA to INTEC Haul Road	Lithic Scatter	Flakes, Cottonwood point	Late Prehistoric II	Potentially Eligible
2000-01-03	BBWI-2000-01: ARA to INTEC Haul Road	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
2000-01-04	BBWI-2000-01: ARA to INTEC Haul Road	Campsite	Flakes, large notched point, hearth or oven feature	Middle Prehistoric	Potentially Eligible
2000-01-05	BBWI-2000-01: ARA to INTEC Haul Road	Lithic Scatter	Flakes, two utilized flakes	General Prehistoric	Potentially Eligible
2000-01-06	BBWI-2000-01: ARA to INTEC Haul Road	Isolated Find	Flakes, utilized flake	General Prehistoric	Not Eligible
2000-01-07	BBWI-2000-01: ARA to INTEC Haul Road	Lithic Scatter	Flakes	General Prehistoric	Potentially Eligible
2000-01-08	BBWI-2000-01: ARA to INTEC Haul Road	Isolated Find	Biface fragment	General Prehistoric	Not Eligible
2000-01-09	BBWI-2000-01: ARA to INTEC Haul Road	Campsite	Flakes, Desert point, fire-cracked rock, schistose quartzite	Late Prehistoric II	Potentially Eligible
10-BT-1698	EGG-90-09: NPR to ICPP Access Road and BBWI-2000-01: ARA to INTEC Haul Road	Lithic Scatter	Flakes, two lanceolate points, one Elko point, knife, graver, four scrapers, eight biface fragments	Early Prehistoric, Middle Prehistoric III	Potentially Eligible

Table 3-2. (continued).

ARA Complex	EGG-90-04: ARA D&D	ARA Complex	Multiple buildings and structures significant for association with Cold War military applications of nuclear technology	1957 – 1965	Eligible, mitigation complete
PER-601	LMIT-97-56: Historic Building Inventory	PBF Complex	Reactor Control Building, Test Support Building, Offices significant for association with commercial reactor safety tests	1955	Eligible, mitigation complete
PER-602	LMIT-97-56: Historic Building Inventory	PBF Complex	Pumphouse significant for association with commercial reactor safety tests	1955	Eligible, mitigation complete
PER-604	LMIT-97-56: Historic Building Inventory	PBF Complex	Reactor Building, Test Support Building significant for association with commercial reactor safety tests	1955	Eligible, mitigation complete
PER-606	LMIT-97-56: Historic Building Inventory	PBF Complex	Test Support Building, Instrument Cell significant for association with commercial reactor safety tests	1956	Eligible
PER-608	LMIT-97-56: Historic Building Inventory	PBF Complex	Substation Control House significant for association with commercial reactor safety tests	1957	Eligible, mitigation complete
PER-609	LMIT-97-56: Historic Building Inventory	PBF Complex	SPERT III Reactor Building significant for association with commercial reactor safety tests	1957	Eligible
PER-612	LMIT-97-56: Historic Building Inventory	PBF Complex	SPERT II Reactor Building significant for association with commercial reactor safety tests	1959	Eligible
PER-613	LMIT-97-56: Historic Building Inventory	PBF Complex	SPERT IV Reactor Building significant for association with commercial reactor safety tests	1960	Eligible

Table 3-2. (continued).

PER-614	LMIT-97-56: Historic Building Inventory	PBF Complex	Pumphouse significant for association with commercial reactor safety tests	1960	Eligible, mitigation complete
PER-616	LMIT-97-56: Historic Building Inventory	PBF Complex	Storage Building significant for association with commercial reactor safety tests	1967	Eligible, mitigation complete
PER-617	LMIT-97-56: Historic Building Inventory	PBF Complex	Storage Building significant for association with commercial reactor safety tests	1962	Eligible, mitigation complete
PER-619	LMIT-97-56: Historic Building Inventory	PBF Complex	Reactor Control Building significant for association with commercial reactor safety tests	1955	Eligible
PER-620	LMIT-97-56: Historic Building Inventory	PBF Complex	Power Burst Facility Reactor Building significant for association with commercial reactor safety tests	1966	Eligible
PER-621	LMIT-97-56: Historic Building Inventory	PBF Complex	Emergency Generator Building significant for association with commercial reactor safety tests	1958	Eligible, mitigation complete
PER-625	LMIT-97-56: Historic Building Inventory	PBF Complex	Maintenance and Storage Building significant for association with commercial reactor safety tests	1966	Eligible, mitigation complete
PER-627	LMIT-97-56: Historic Building Inventory	PBF Complex	Gas Cylinder Storage Building significant for association with commercial reactor safety tests	1966	Eligible, mitigation complete

3.1.1 Archaeological and Native American Sites Summary

Since 1984, six major archaeological survey projects encompassing nearly 1200 acres have been completed in the PBF area. As a result, 86 sensitive resources have been identified within the fenced perimeter of the facility or immediately adjacent to it. Resources include hunting campsites and game processing areas, and stone tool processing areas from all major periods of human occupation represented at the INEEL. Figures 3-2 through 3-5 illustrate some artifacts typical of these sites. The PBF area also includes a rock feature made of locally available basalt cobbles (Figure 3-6). The topographic situation and basic structure of this feature suggests that it probably functioned as a hunting blind. A number of resources important and sacred to the Shoshone-Bannock Tribes are also known within the boundaries of the PBF complex. In fact, it is the only INEEL facility known to contain Native American burial sites and is extremely sensitive as a result. Shoshone-Bannock tribal members have also indicated that the sandy ridges and basins so common to this portion of the INEEL may contain additional areas of traditional cultural importance. Limited archaeological test excavations completed in 1988 and intensive emergency investigations of inadvertently discovered Native American human remains in 1994 and again in 1996 provide further evidence of the sensitivity of the area and indicate a high potential for stratified subsurface cultural deposits.

At the ARA complex, archaeological investigations began in the early 1990s when environmental restoration activities were initiated. Beginning in 1994, the INEEL Cultural Resource Management (CRM) Office completed a variety of small surveys for monitoring wells, warning signs, new fences, etc. (Miller 1995). In 1997 and 1998, survey coverage was significantly expanded during examination of 229 acres around the main facility operation centers; 15 archaeological resources were documented in this area (Pace 2000).

To date, none of the archaeological sites identified in WAG 5 are associated with early historic use of the area; all are related to Native American hunter-gatherer use.

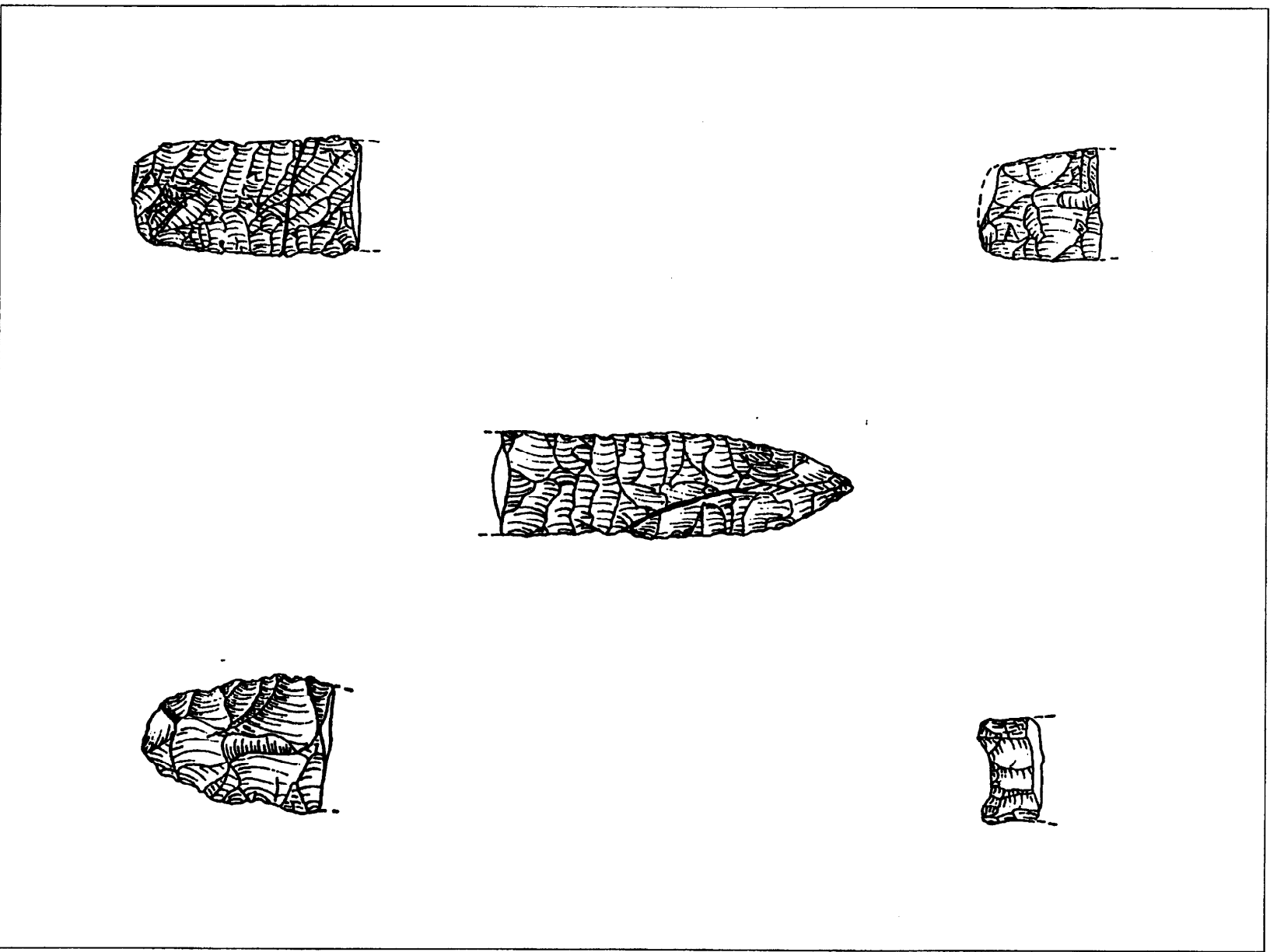


Figure 3-2. Early Prehistoric artifacts from WAG 5.

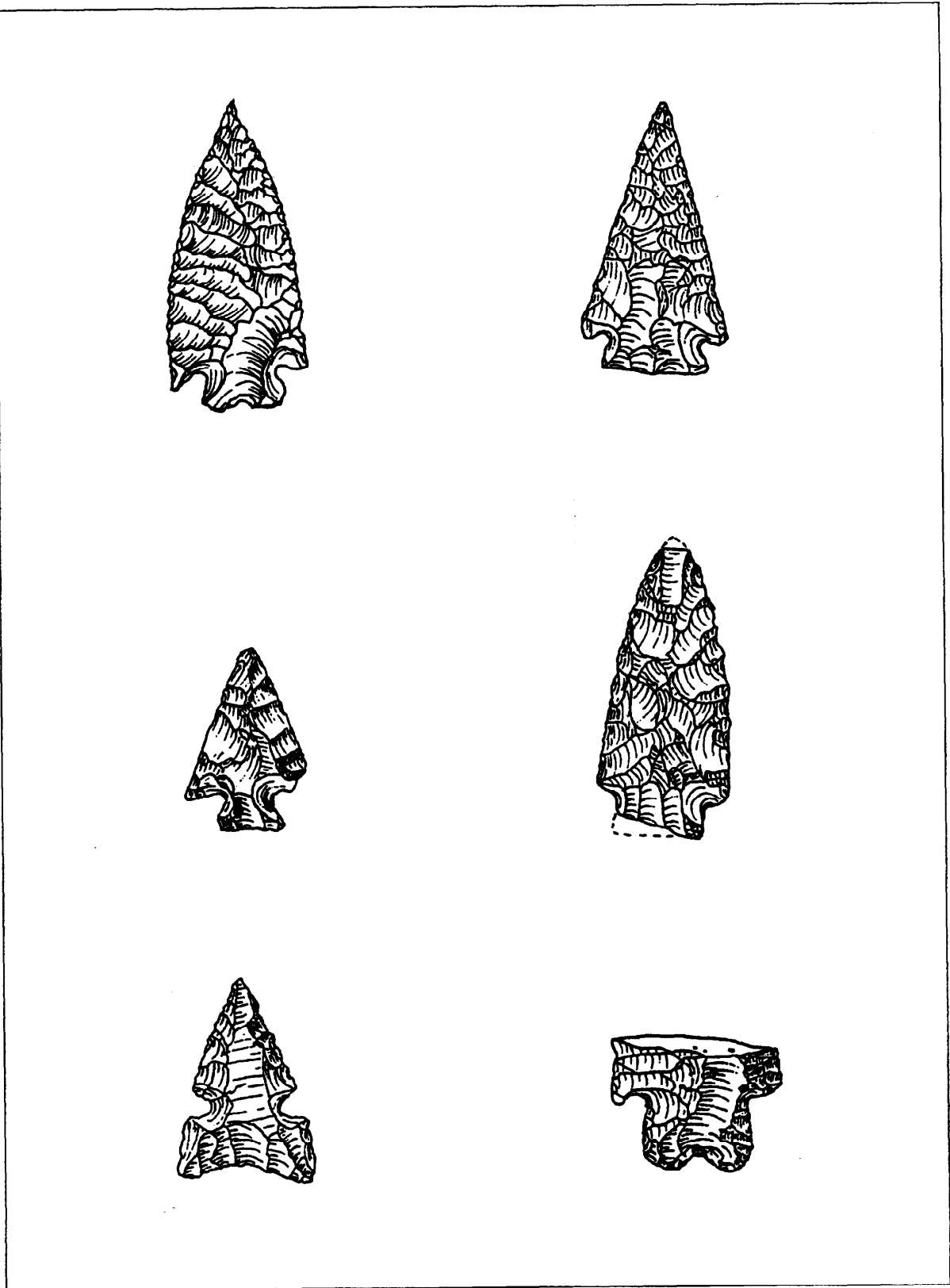


Figure 3-3. Middle Prehistoric artifacts from WAG 5.

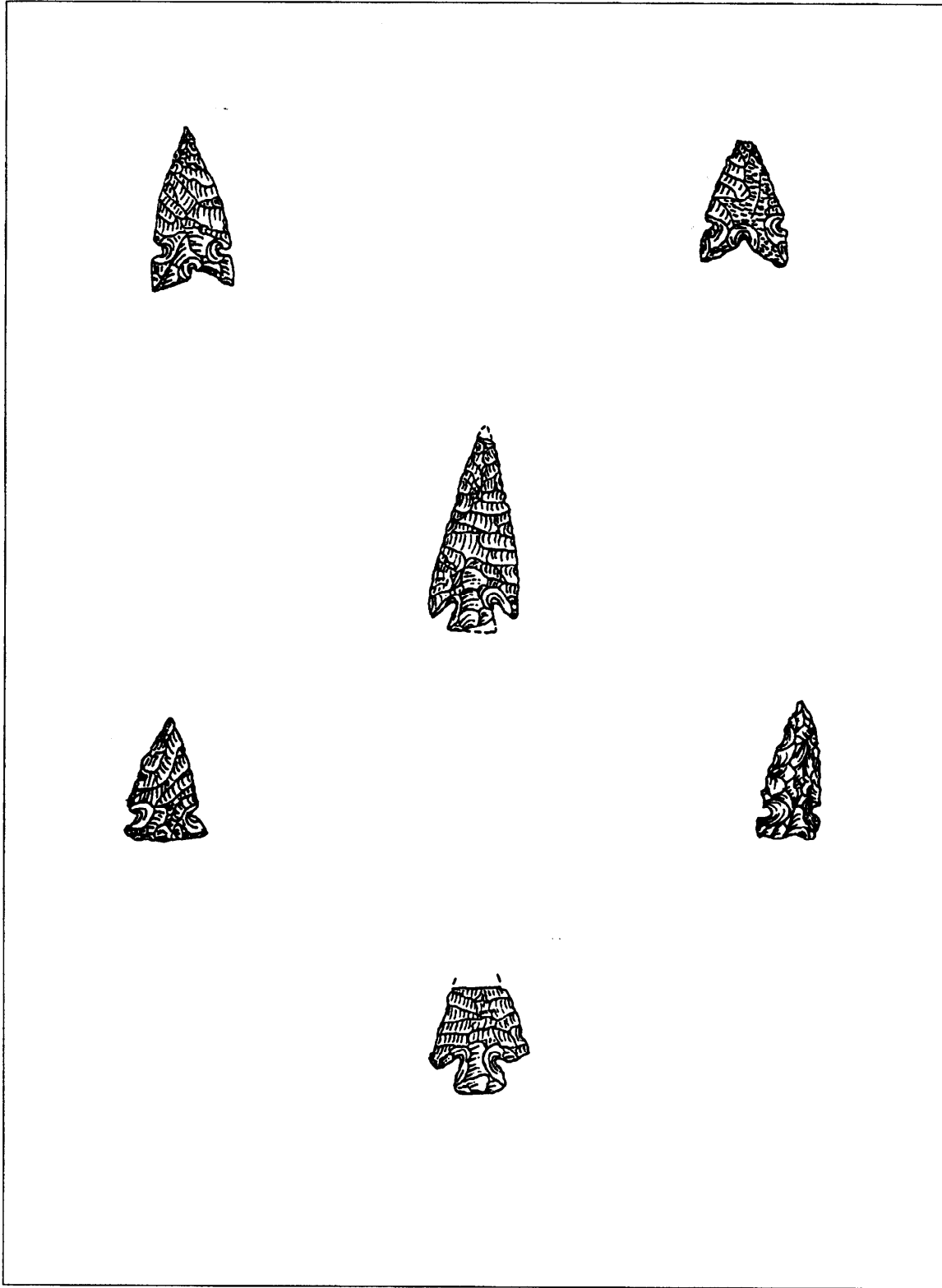


Figure 3-4. Late Prehistoric artifacts from WAG 5.

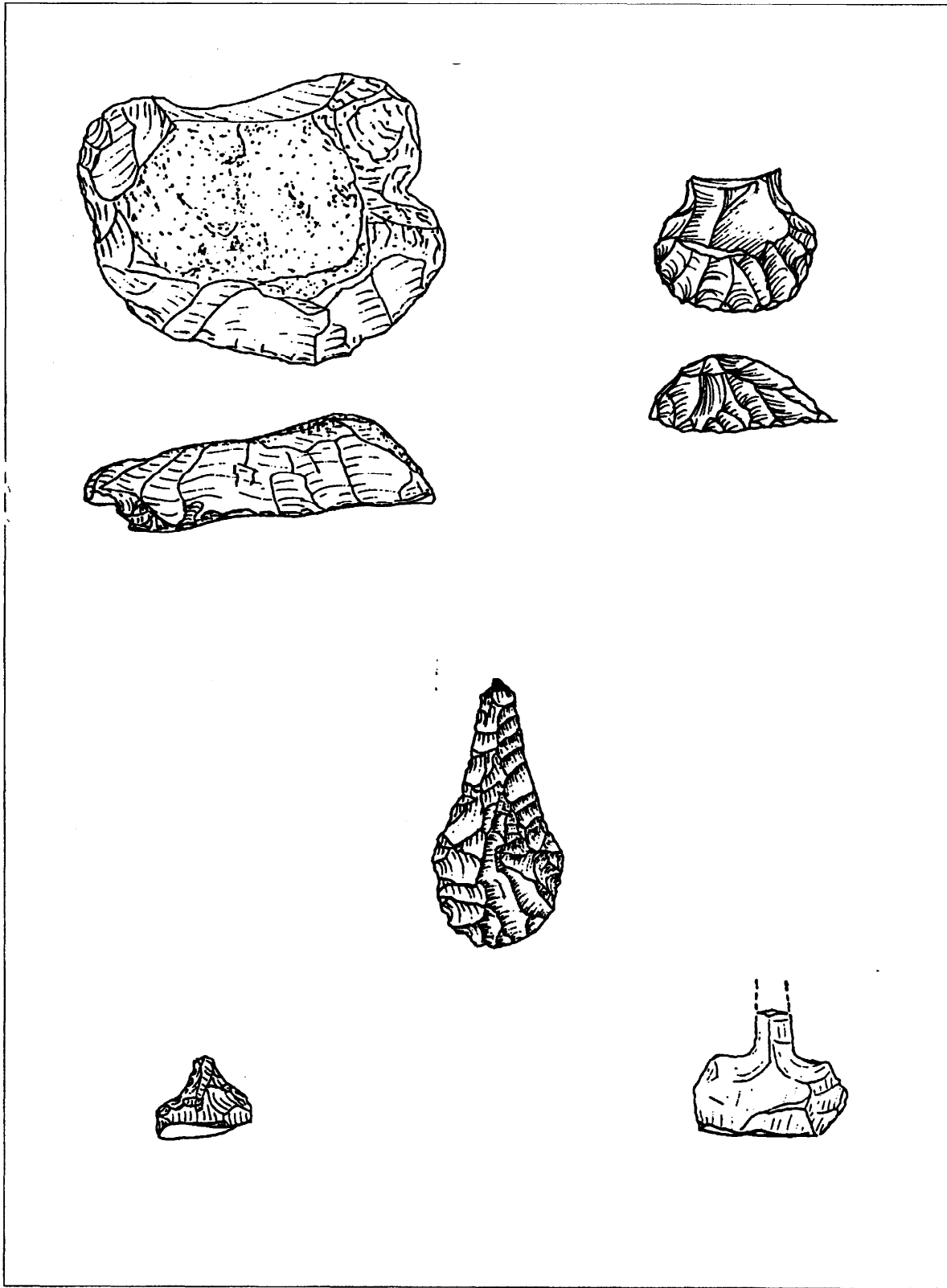


Figure 3-5. Miscellaneous chipped stone tools from WAG 5.

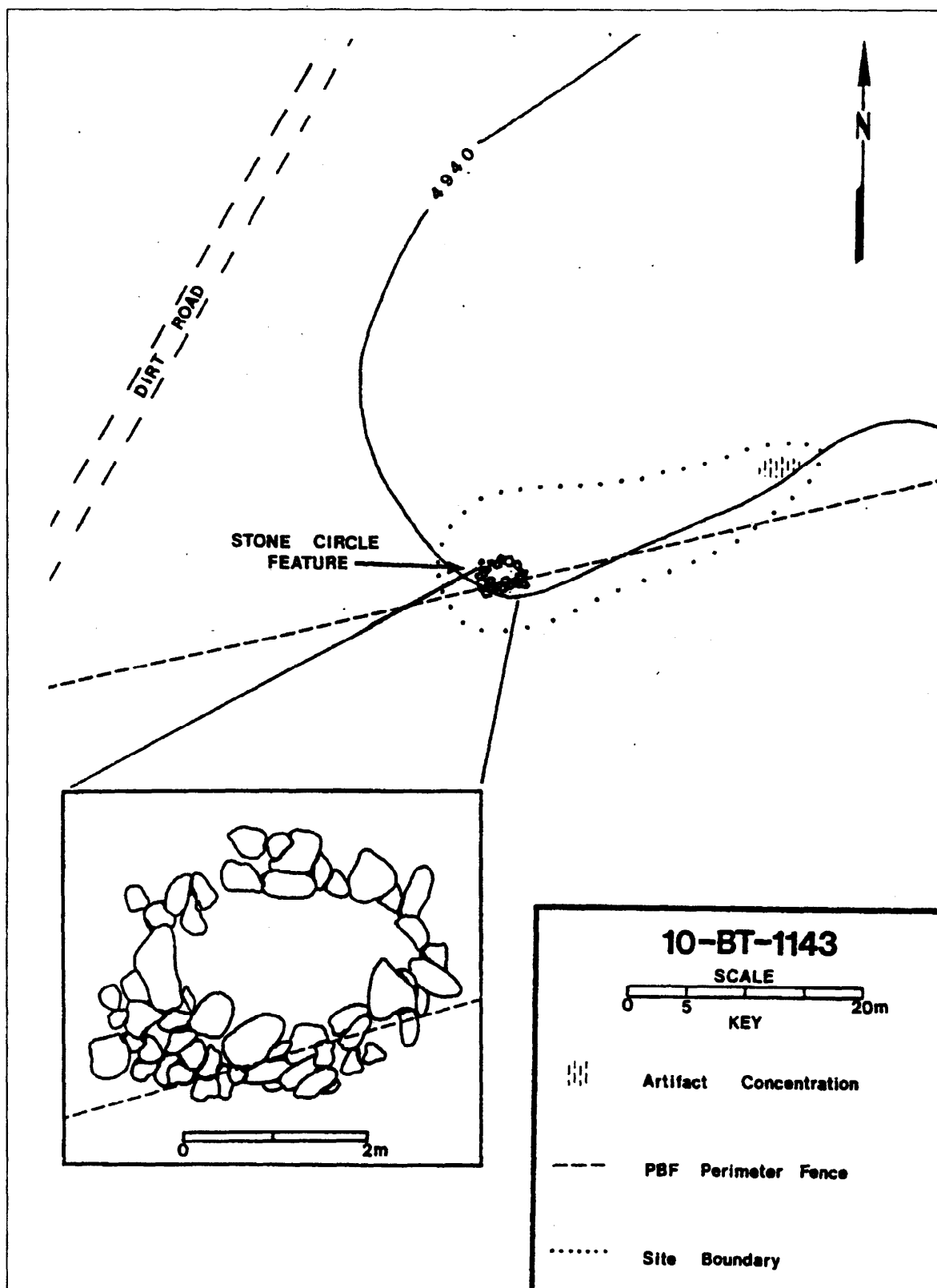


Figure 3-6. Rock Feature/Hunting Blind from WAG 5.

3.1.2 Historic Buildings Summary

The experiments conducted within the PBF complex were part of the AEC's Reactor Safety Program. This group was concerned with safety issues associated with commercial use of atomic energy, and sponsored research into such issues as the design requirements for containment buildings and the behavior dynamics of reactors under runaway conditions. In the early part of the 1960s, the four Special Power Excursion Reactor Test (SPERT) reactors built at the INEEL (then the National Reactor Testing Station) carried out the major portion of the Reactor Safety Program originally started in the 1950s at another INEEL facility. These experimental designs provided the nuclear industry with information needed for designing and operating boiling water, pressurized water, heavy water, and open pool reactors, and thereby went a long way toward promoting a commercial nuclear power industry in the United States. Later in the early 1970s, the one-of-a-kind Power Burst Facility (PBF) was the only reactor in the world where severe fuel rod burst tests were performed on the order of milliseconds, and where loss-of-coolant accidents could be simulated within a special assembly that fit inside the main reactor core. Like the SPERT series, it advanced the safety of commercial power reactors. In the 1980s, the SPERT/PBF took on a new research mission directed toward waste management. At this time, many facilities were renamed and modified for new missions that continue today. A preliminary survey of DOE-ID administered buildings (Arrowrock Group, Inc. 1997) indicates that 16 of the 27 buildings within the PBF complex are potentially eligible for nomination to the National Register of Historic Places.

The ARA (Army Reactors Area) was built from 1957 - 1965 for the US Army to test reactor concepts suitable for mobile power plants. The objective was to develop a family of nuclear power plants in a range of kilowatt capacity configurations. Some would be stationary, others mobile. They were intended to replace diesel-powered plants in isolated or challenging locations where fuel supply lines were costly to maintain. Three test reactors were constructed and operated: the Stationary Low Power Reactor, the Gas Cooled Reactor Experiment, and the Mobile Low Power Reactor. The Army cancelled the program in 1965, because of ongoing design difficulties and the high cost of building and operating the plants. War priorities (Vietnam War) also supplanted the funding for the program. After the Army left, the complex was renamed (Auxiliary Reactor Area) and the facilities were adapted to provide technical support for other NRTS programs. Decontamination and demolition began in 1988.

3.2 Ongoing Investigations

Several cultural resources investigations are ongoing within WAG 5. For archaeological and Native American sites, the primary activity is monitoring of known resources for adverse impact. Members of the INEEL Cultural Resource Management Office and the Shoshone-Bannock Tribes monitor Native American burial sites within the area twice yearly. Other archaeological sites are also regularly revisited and evaluated through an ongoing INEEL-wide program administered through the INEEL CRM Office. Few impacts have been observed, possibly due to relatively low levels of activity within the facilities that make up WAG 5. Ground disturbing activities are often subject to archaeological monitoring within WAG 5 due to the high incidence of inadvertent discoveries of cultural materials there. Finally, surveys in advance of ground disturbing activities are also continually ongoing, to ensure that modern work processes impact no known or as yet unknown resources.

Activities associated with historic buildings and structures within WAG 5 are tied closely to decontamination, dismantlement, demolition, and maintenance schedules. Currently there are no ongoing investigations.